

CATALOG NUMBER

69634



LED Dome Light Installed on Roof Bow

PRODUCT FEATURES

Three LED Dome Light Kit w/ Switches Kit

- This product includes three (3) module dome LED lights, voltage timer module, and switches.
- This kit is intended for the Chevrolet Express vans.
- There are no OEM options required for this product and there are no OEM options that this product is not compatible with.
- This kit provides LED lighting to the cargo area of the van that can be controlled by switches.

Model Year Validated:

2023

PAGE 1 of 1

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Introduction / Comments:

Install Instructions For Interior Plug & Play Lights For GM Express

Note:

Read all instructions prior to installation. Review the Adrian Steel **GENERAL PRECAUTIONS PAGES (56638)** before attempting installation. Only personnel familiar with using electrical best practices should perform this install. Reference **ELECTRICAL BEST PRACTICES MANUAL (54479)** before attempting installation.

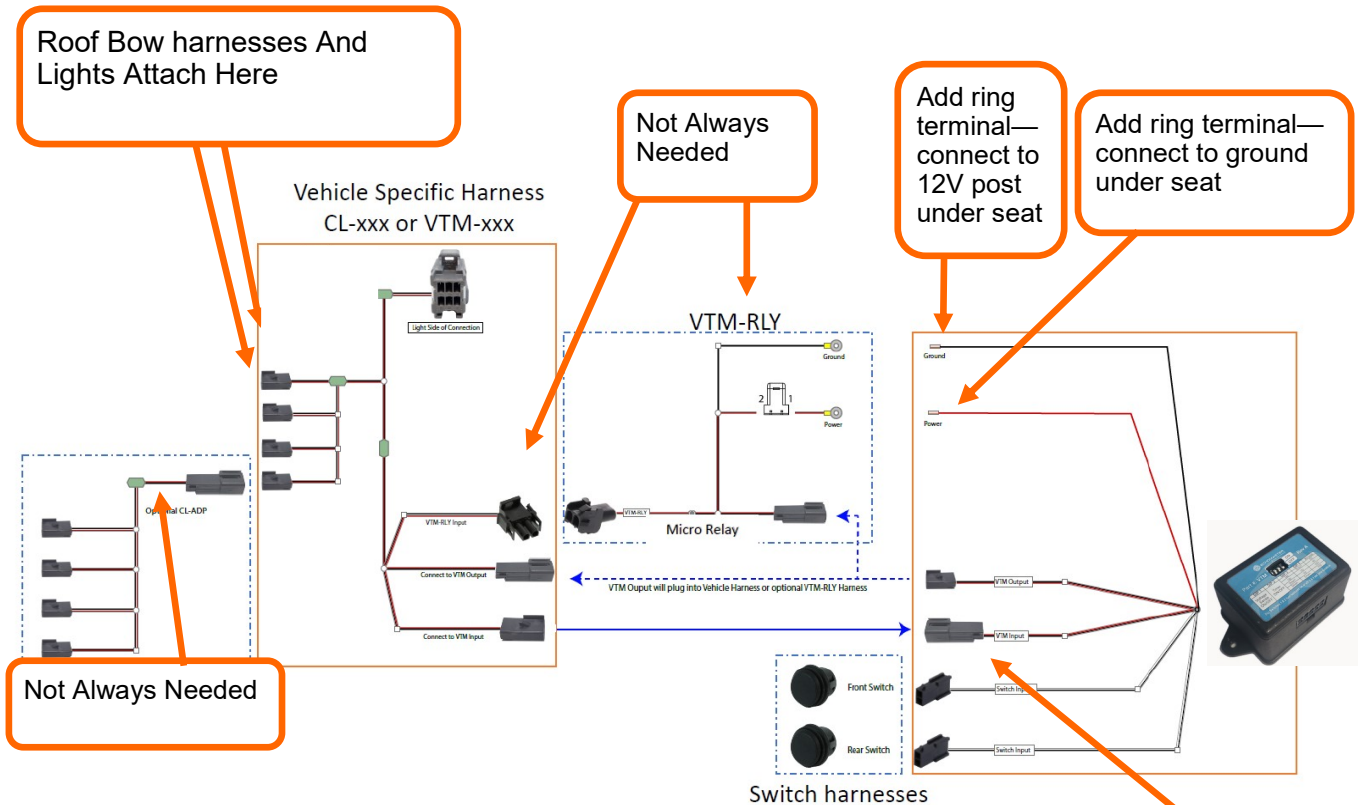


Installation Instructions For Interior Plug And Play Lights For GM Express

****Please read statement below before moving forward****

These plug and play kits are completely modular and can be configured in many different ways. Placement of lights will be determined by sales order drawings/customer ask. Therefore, these instructions are for the most standard configurations, and for reference only. The only harness that is specific to the transit vehicle are the power harnesses 65792. Routing will be very standard across all kits, but placement of lights and switches are subject to be different from these instructions if called out on the order drawing differently.

Overall Harness Diagram



Tools required:

Crimpers



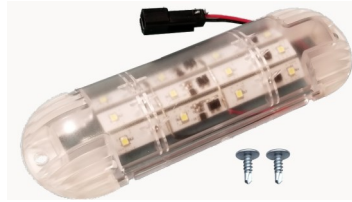
7/16 Socket and/or wrench



Power drill, 3/8" step drill bit, Philips head bit (if installing dome lights)

For all vehicles that are NOT RAM. This connector will be black. RAM vehicles, this will be white. See page 4 for more details.

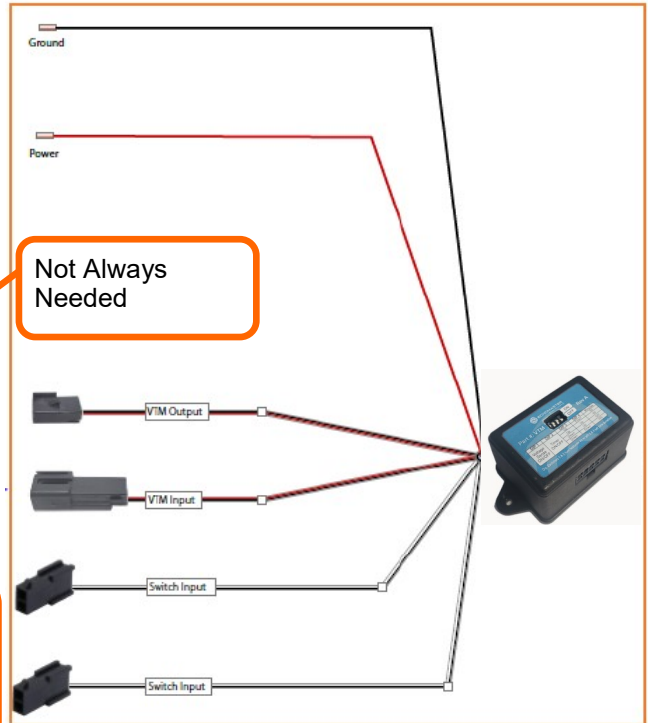
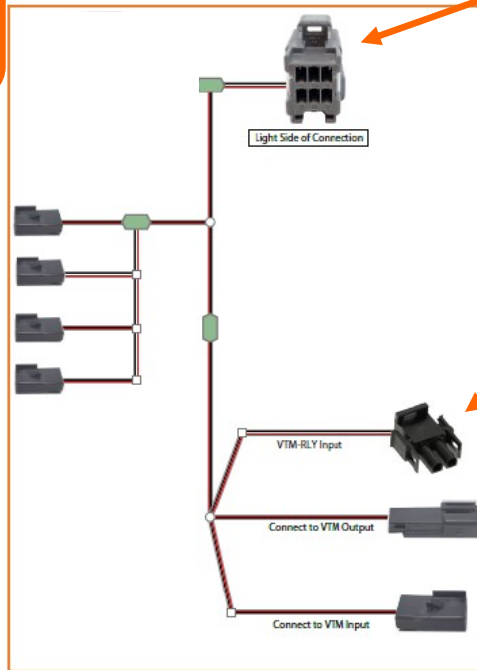
Specific Harness Diagram



Vehicle Specific Harness
CL-xxx or VTM-xxx

Roof Bow
Harnesses
and Lights
Connect Here

Insert into OEM
Light Connector:
See Below



Not Always
Needed



Switch
Harness in
between

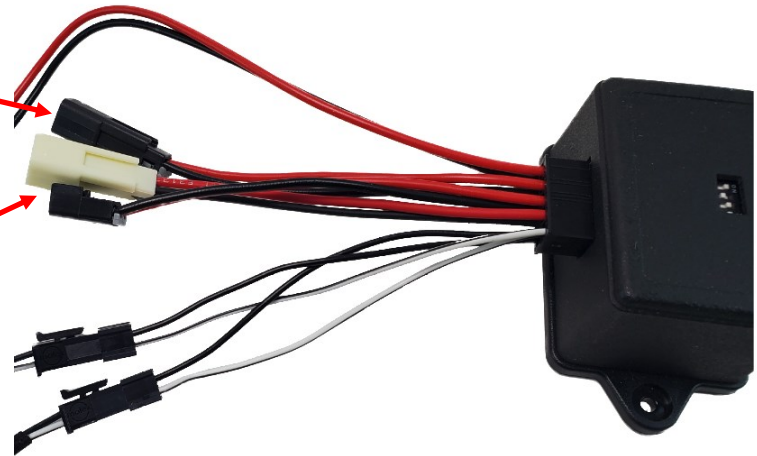
OEM Light Connector located on the OEM light: Remove the OEM light



Voltage Timer Module (VTM) Harness Reference

For all vehicles except RAM, the black input connector will be used to plug into the vehicle specific harness. The white connector will NOT be used.

For all RAM vehicles, the white connector will be used to plug into the vehicle specific harness. The black connector will NOT be used.

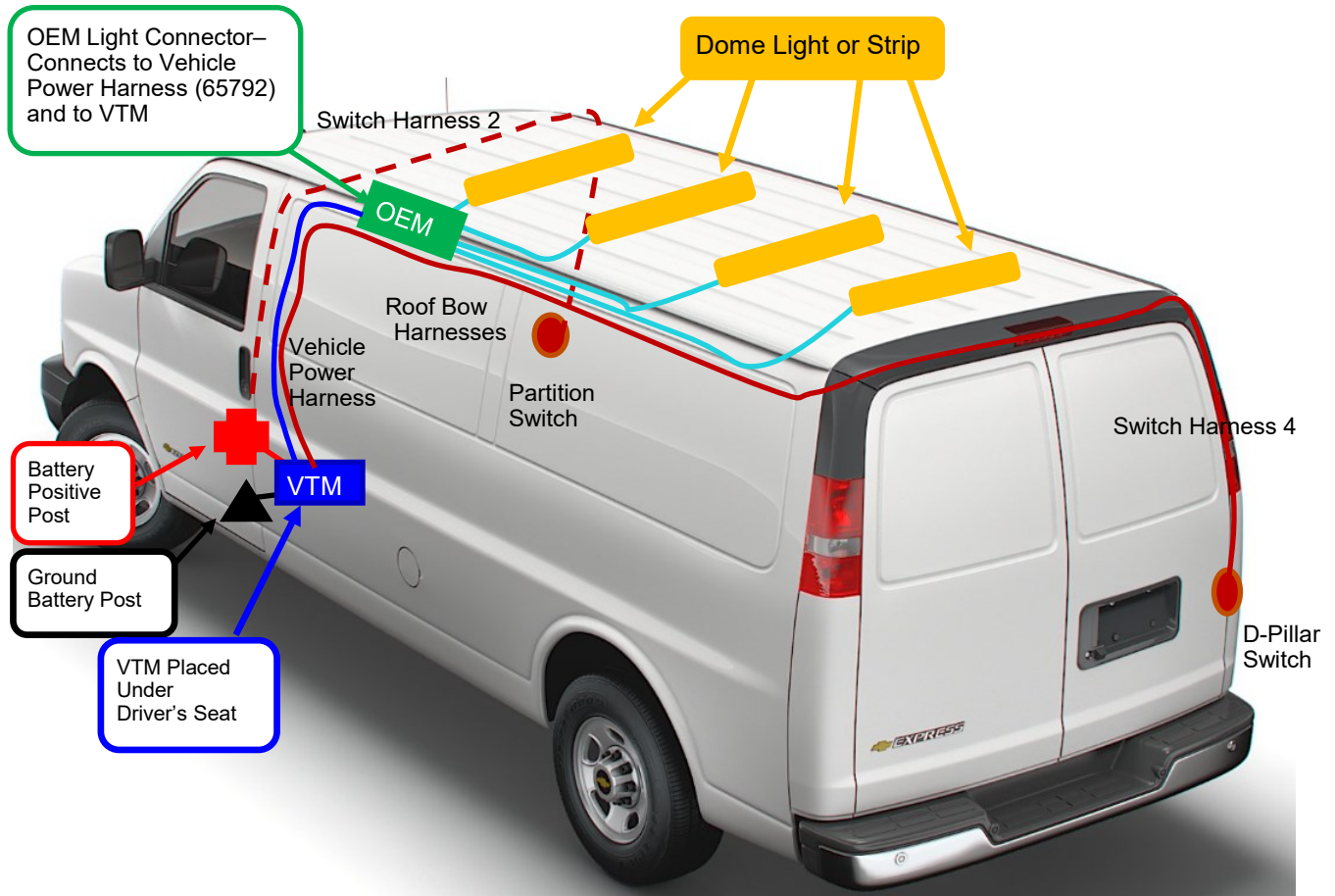


Harnesses Needed

| | Part Number | Description |
|---|---|------------------------------------|
| 1 | 65786 | Voltage Timer Module (VTM) |
| 2 | 63480 Or/And 64222, 65346, 65347, 65348 | Dome Light Or/And Strip Lights |
| 3 | 63481 Or/And 63842, 63483, 63484 | Roof Bow Harnesses 1 through 4 |
| 4 | 65792 | Power Harness |
| 5 | 65787 Or/And 65788, 65789, 65790 | Switch Harness 1 through 4 for VTM |



Harness pictures are for reference only.



| Color | Key - Items |
|--------------|--------------------------------|
| Blue | VTM/Harness |
| Green | Vehicle Specific Power Harness |
| Black | Ground Location |
| Red | 12V location |
| Redish/Brown | Switch Harnesses |
| Yellow | Dome or Strip Lights |
| Teal | Roof Bow Harnesses |

The purpose of plug and play lighting is to be completely modular. Due to this feature, refer to the order drawing for all exact lighting placements. These installation instructions are for most cases and for reference.

Optional Required Harnesses:

64244: This adapter harness allows for extra extensions to be added (if needed).



Be sure not to overload the OEM circuit by putting too many lights on the circuit. Consult ASCO Electrical Engineering team for application advice if using more than 4 lights.

Add Relay Harness 65791 for extra amperage. (Not always needed)

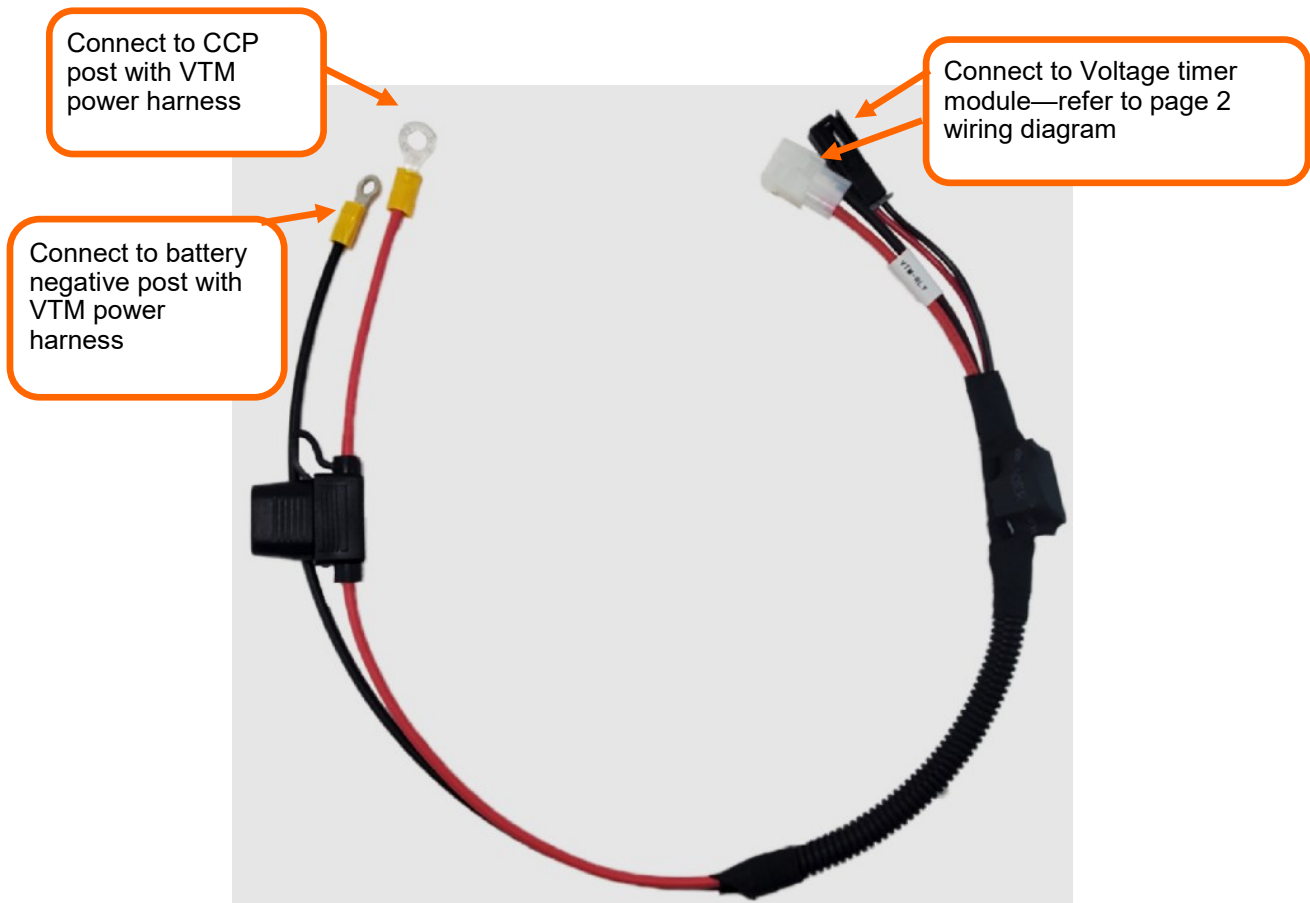




Figure 7.1



Figure 7.2



Figure 7.3

Pre Work for install:

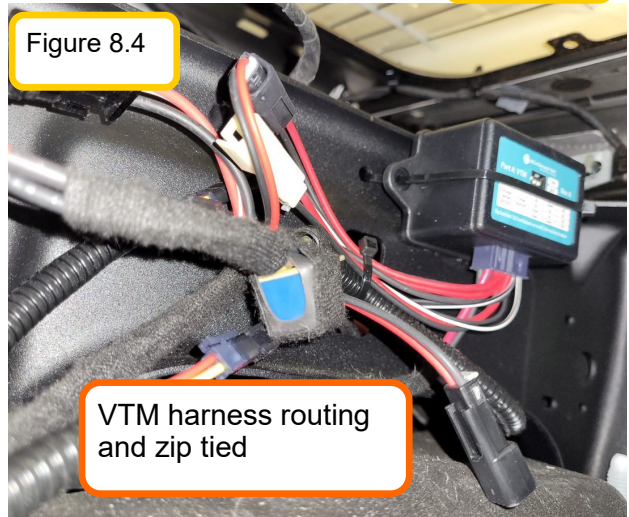
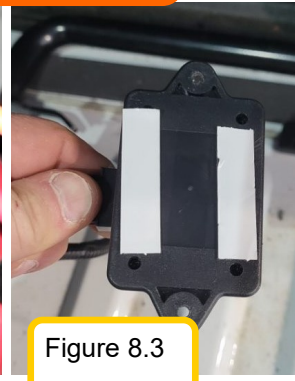
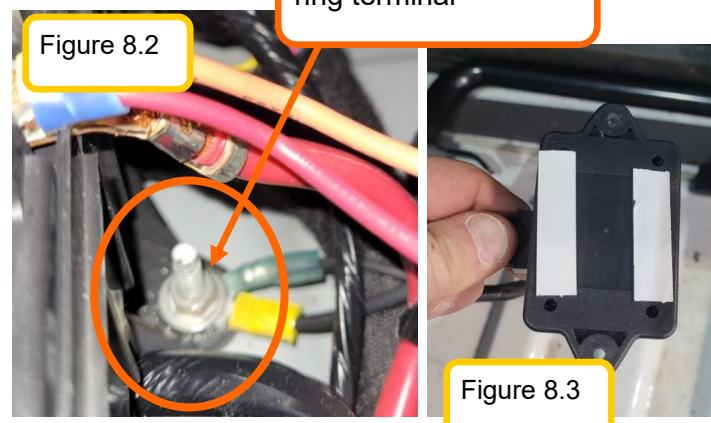
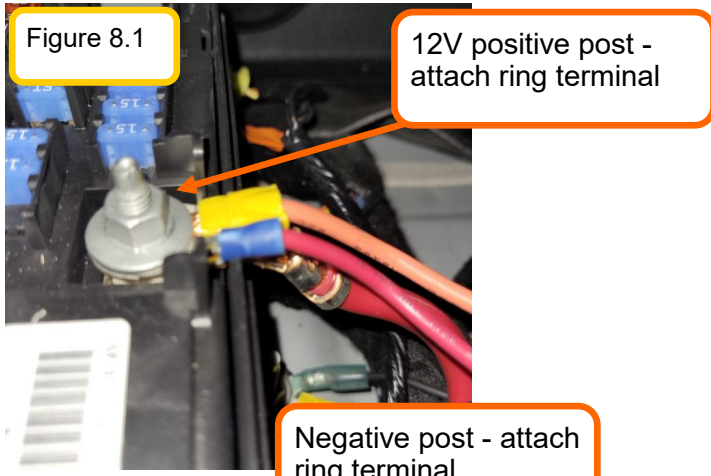
Disconnect the OEM cargo lights from the OEM harnesses by unclipping the connectors. See figure 7.1.

Do this for all the cargo roof lights.

Remove all the interior lights from the roof bows. Figure 7.2.

Unclip all the OW roof bow harnesses from the roof bow, and reposition them back into the OEM harness bundle in the roof channel.

Be sure to keep the first roof bow harness handy for the install on page 9. You can locate this harness end next to the first roof bow split. See figure 7.3 for location.



Step 1:

Locate the VTM harness #65786

Attach the two 3/8" ring terminals to the red wire and the black wire.

Remove the fuse from the inline fuse holder until the end of the install

Plug the harness connector into the voltage timer module port

Step 2:

Locate the fuse box under the driver's seat. Attach the positive (red) wire to the 12V positive post. Secure with the OEM nut. See Figure 8.1.

Attach the ground ring terminal (black) to the negative post on the bottom of the fuse block. Secure with the OEM nut. See Figure 8.2.

Step 3:

*****Please be sure to set all the dip switches on the VTM UP*****

Refer to the bottom picture for dip switch settings. If the customer would like a different amount of time other than 90 minutes, use the dip switches to set the time.

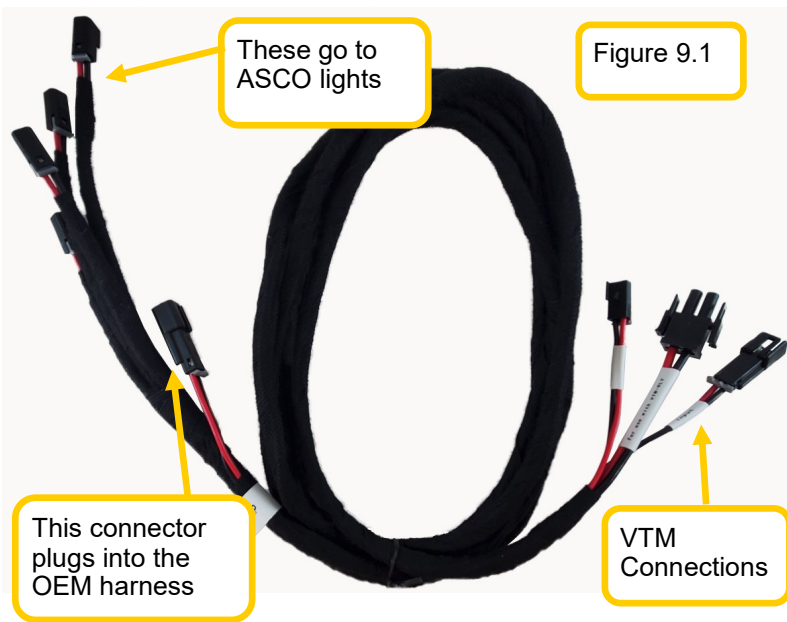
Apply the VHB tape to the back of the VTM (voltage timer module). See figure 8.3.

Stick the VTM to the back of the seat base and secure with a zip tie. See figure 8.4.

Plug the switch harnesses (65788 & 65790) into the VTM harness. See pages 2 & 3 for reference.

| DIP SWITCH 1 UP/DOWN | DIP SWITCH 2 UP/DOWN | DIP SWITCH 3 | DIP SWITCH 4 | Timer Duration (Minutes) |
|-------------------------|-------------------------|--------------|--------------|-----------------------------|
| Voltage Sense ON/OFF | Timer ON/OFF | UP | DOWN | 60 |
| | | UP | UP | 90 |
| | | DOWN | UP | 120 |
| | | DOWN | DOWN | 150 |

VTM Dip Switch Settings



Step 4:

Locate the OEM first roof bow harness end that you saved for this part of the install.

Plug the vehicle specific power harness (65792) into the OEM connector:
Figure 9.1 and 9.2.

Route the power harness down the partition to the VTM module, and plug it in. Be sure to use the black colored VTM input connector referenced on page 4. The white connector will NOT be used for this install.



Step 5:

Connect the roof bow harnesses (63481 Or/And 63842, 63483, 63484 all that are applicable) to the power harness (ends located in the OEM harness channel) and route them to their desired light locations. (Light locations on the roof bows).
Figure 9.3.

Use zip ties/fir trees to secure all wiring. See figures 9.4 and 9.5.





Step 6:

Before mounting any lights, prep the surface where the light will be placed with the supplied alcohol pad. Let dry for a few minutes, then mount the light.

Be sure the surface is clean before applying the VHB tape. Read the supplied instructions in the lighting boxes.

Mount the strip/dome lights to their desired locations: Refer to the order drawing.

For dome lights, use the VHB tape already on the back of the light, and also secure with the supplied tek screws.

Dome lights are to be placed as close to the center of the roof bow as possible. Figure 10.1 and 10.2.



For the strip lights, use the VHB tape supplied on the back of the lights, and use the little square sticky backs with zip ties that are supplied in the box.

Strip lights are to be placed centered between the channel/valley of the bow. You will see that these lights fit almost perfectly in the channel. Figure 10.3



Figure 11.1



Partition Switch

Locations:

Switch hole in steel partition behind the passenger's seat (figure 11.1) or drill out switch hole in composite partition (figure 11.2).

This location will require harness #65788

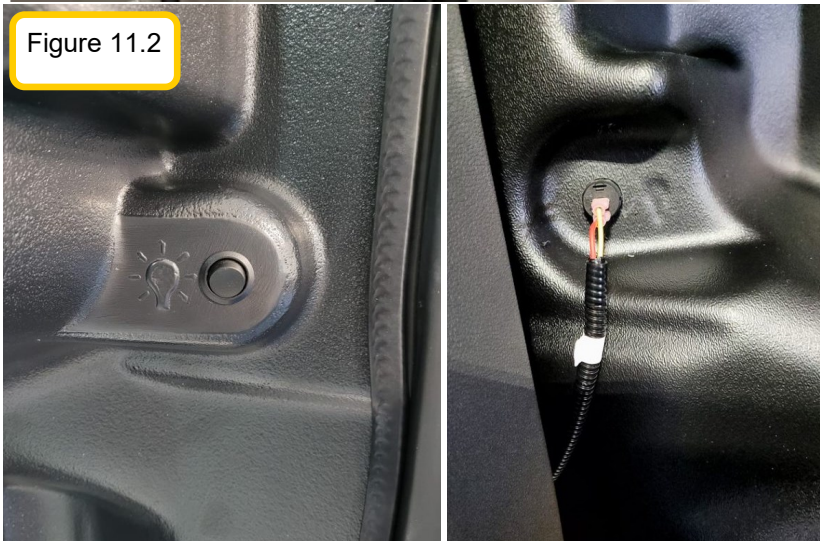
Rear Switch Location:

Passenger side rear D-pillar.

Drill out the horizontal slit in the D-pillar, to fit the switch.

See figure 11.3 below for reference.

Figure 11.2



This location will require harness #65790

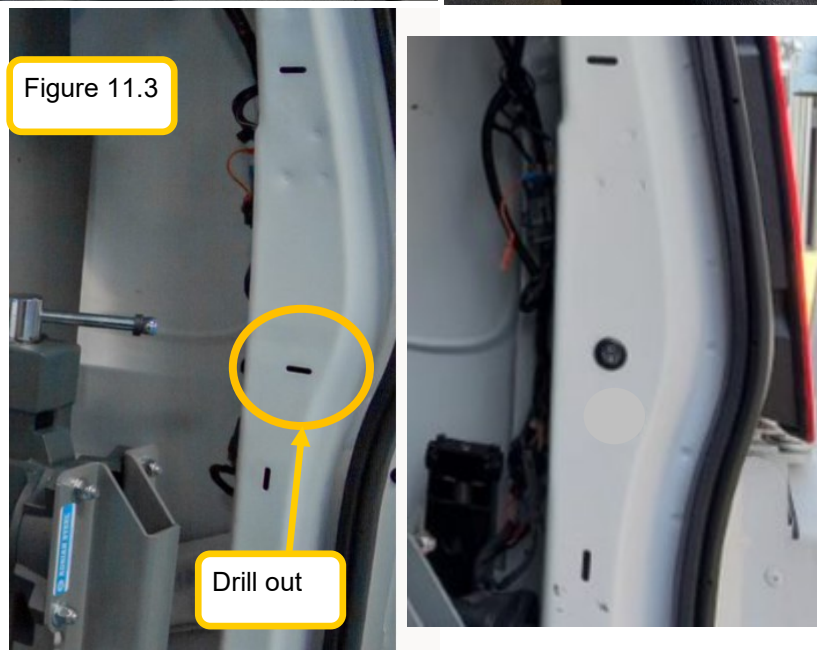
Step 7:

Route the 65788 harness from the VTM harness location (above the drivers seat in the headliner - see routing diagram for reference) to the partition switch location.

Do the same with harness 65790 to the D-pillar switch location.

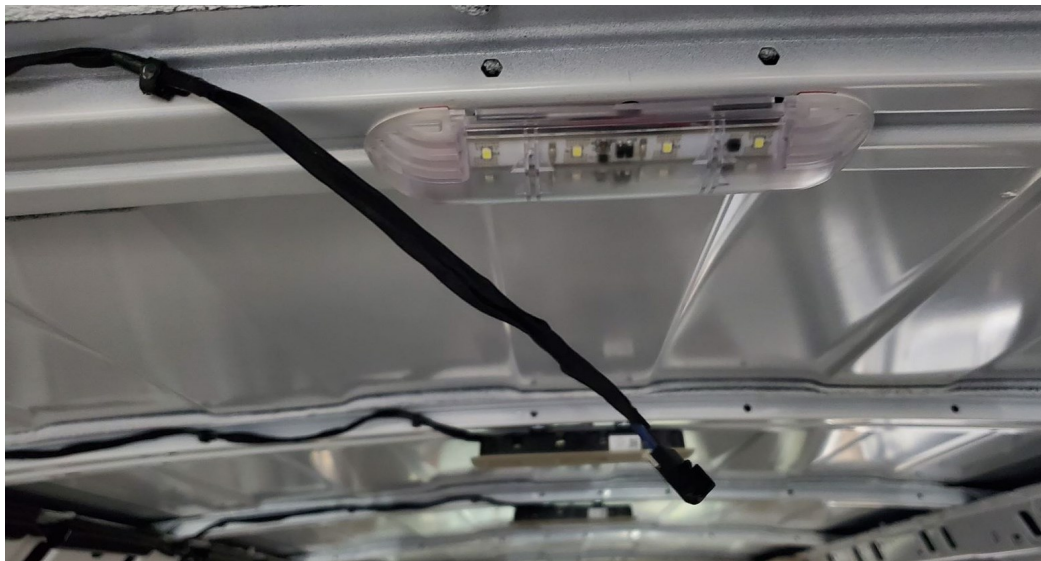
Use Zip ties to secure wiring.

Figure 11.3



Drill needed holes for the switches in rear D pillar panel, and composite partition (if applicable).

Insert the switches into the holes with the "1" in the 12:00 position, connect the harness (the connection orientation does not matter).



Insert the fuse into the inline-fuse holder on the power harness. The install is now complete. Secure all wiring with zip ties. Re-attach all trim. Double check the functionality of the lights and switches.

PART NUMBER

13905-0

ITEM DESCRIPTION: WIRE TIE, NYLON 40Lb, 8.5" BLACK



MANUFACTURER: WAYTEK, INC. or equivalent
MANUFACTURERS PART NUMBER: 21093M or 21093C

SPECIFICATIONS: STANDARD CABLE TIE
 BLACK, NYLON
 8-1/2" LONG
 TENSILE STRENGTH: 40.0 LBS
 21093M = 1,000 quantity
 21093C = 100 quantity

SPECIAL NOTES: PART NUMBER IS BLACK.

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

PURCHASED PRODUCT DATA SHEET (PPDS)

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ADRIAN STEEL
VAN AND PICKUP EQUIPMENT

906 JAMES STREET
ADRIAN, MI 49221
517-265-6194
WWW.ADRIANSTEEL.COM



WHEN INSTALLING EQUIPMENT IN OR ON VEHICLES CHECK FOR FUEL TANKS, FUEL LINES, CONTROL LINES AND ELECTRICAL WIRING BEFORE DRILLING! ALWAYS USE DRILL BITS WITH INTEGRAL STOPS WHENEVER POSSIBLE!

DRAWN BY
MDG

DATE DRAWN
10/26/2006

ECN NUMBER
18021

ECN DATE
11/13/2015

PART WEIGHT
0.01 LBS.

REV. LEVEL
D

PART NUMBER
13905-0

PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

Base is a 0.975 inch square

LOAD/RATING REQUIREMENT

N/A

MATERIAL REQUIREMENT

N/A

PACKAGING REQUIREMENT

N/A

OTHER REQUIREMENTS

Black adhesive wire tie mounting base.

Cure Time: Bond 15 Min., Max
Adhesion 1 Hr.

Max. Operating 158

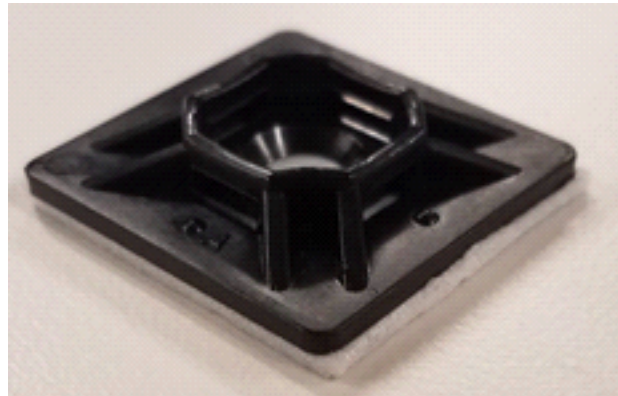
Temp. F:

Max. Operating 70

Temp. C:

Min. Installation 65

Temp. F:



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TOLERANCES & INSPECTION

UNLESS OTHERWISE SPECIFIED

ALL BEND ANGLES ARE 90 DEGREES

ALL DIMENSIONS ARE IN INCHES.

REFERENCE DIMENSIONS (X.XXX)

DO NOT REQUIRE INSPECTION

| FEATURES | HOLES/SLOTS | ANGLES |
|----------------|----------------|-------------|
| 0.0 = ± .125 | 0.0 = ± .062 | 0° = ± 2° |
| 0.00 = ± .062 | 0.00 = ± .031 | 0.0° = ± 1° |
| 0.000 = ± .031 | 0.000 = ± .015 | |

Material Thickness: per ASTM Std.
Weld Callouts per AWS

RELEASE & REVISIONS

INITIAL ECN: 17429

CURRENT ECN: 22185

ECN DESCRIPTION:

Size of the base changed with a change in supplier

REVISED BY: D. LaCroix

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER

Midstate

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER

49401

COLOR (ONLY LIST IF COLOR SPECIFIC)

COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE)
(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)

YES

PRINTED DOCUMENT IS UNCONTROLLED

Sheet 1 of 1

PART / PRODUCT IDENTIFICATION



ADRIAN STEEL

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL

B

MAT'L USED:

DESIGNED BY: **RJB**

DESCRIPTION:

Adhesive wire tie base

WEIGHT (Lbs.):

0.05

SEGMENT CODE:

HDW

PART NUMBER: **49401**

PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

N/A

LOAD/RATING REQUIREMENT

N/A

MATERIAL REQUIREMENT

N/A

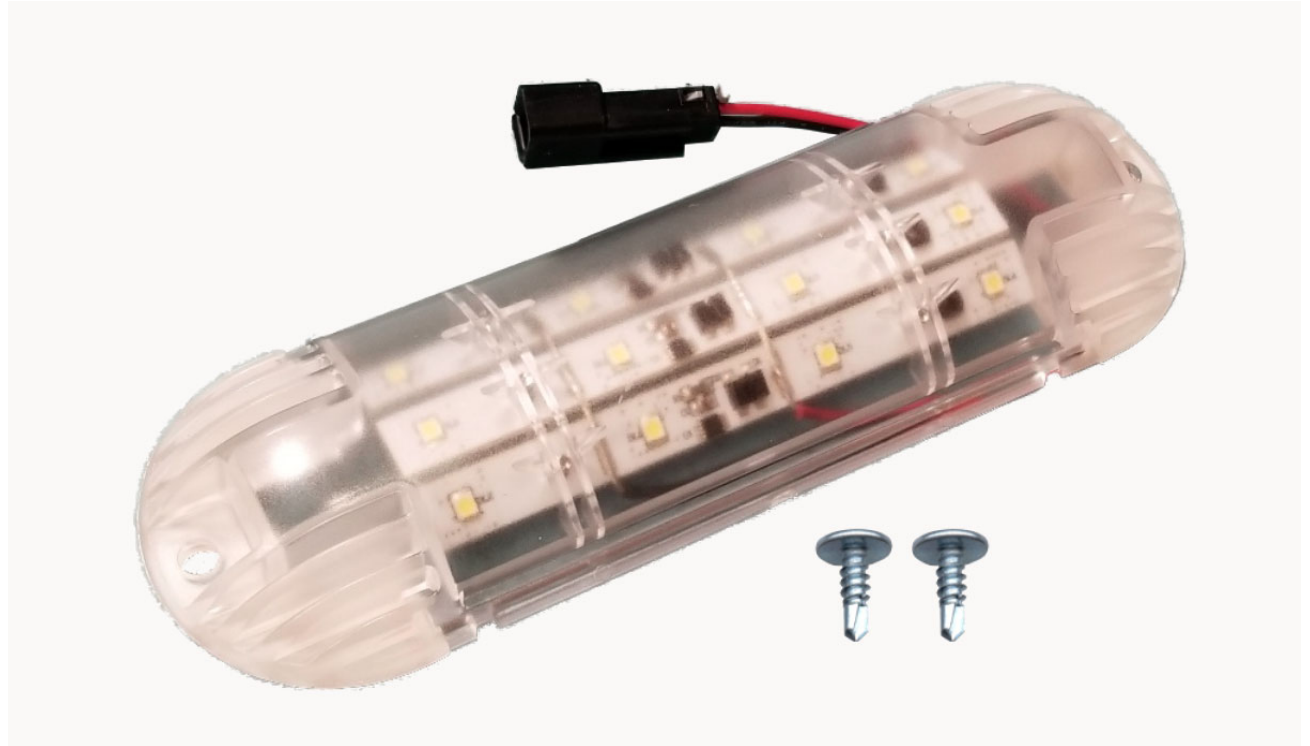
PACKAGING REQUIREMENT

N/A

OTHER REQUIREMENTS

(1) LED LIGHT WITH 12 LED GROUPED IN THREE ROWS

(2) TEK SCREWS INCLUDED



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REFERENCE DIMENSIONS (X.XXX)

DO NOT REQUIRE INSPECTION

| FEATURES | HOLES/SLOTS | ANGLES |
|--------------|--------------|-----------|
| 0.0 ± .125 | 0.0 ± .062 | 0° ± 2° |
| 0.00 ± .062 | 0.00 ± .031 | 0.0° ± 1° |
| 0.000 ± .031 | 0.000 ± .015 | |

Material Thickness: per ASTM Std.
Weld Callouts per AWS

RELEASE & REVISIONS

INITIAL ECN: **24359**

CURRENT ECN: **25886**

ECN DESCRIPTION:

UPDATE SUPPLIER PART #

REVISED BY: **A. ELLISON**

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER

OBERTON ELECTRONICS / ECHOMASTER FLEET SOLUTIONS

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER

8018-6000 / STL40489-3

COLOR (ONLY LIST IF COLOR SPECIFIC)

COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE)
(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)

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Sheet 1 of 1

PART / PRODUCT IDENTIFICATION



ADRIAN STEEL

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL

B

MAT'L USED: **PURCHASED**

DESIGNED BY: **A. ELLISON**

DESCRIPTION: **MODULE DOME LED LIGHT**

WEIGHT (Lbs.):

.50

SEGMENT CODE: **EAU**

PART NUMBER: **63480**

PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

N/A

LOAD/RATING REQUIREMENT

N/A

MATERIAL REQUIREMENT

N/A

PACKAGING REQUIREMENT

N/A

OTHER REQUIREMENTS

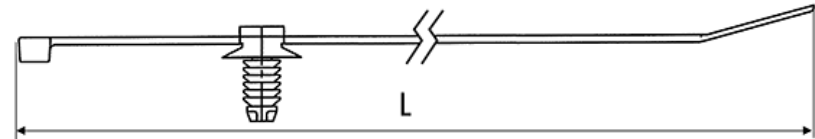
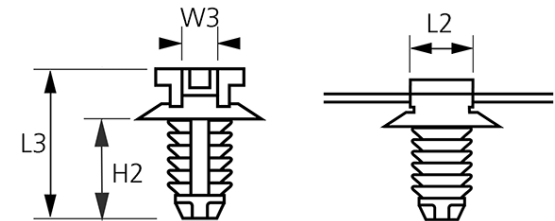
- **Roof Bow #1 (Cargo area, first Roof bow after partition)**
- **(5x) WIRE TIE W/CHRISTMAS TREE**
- **1100mm Length**



P-HARRB1



(5x)



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REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION

| FEATURES | HOLES/SLOTS | ANGLES |
|----------------|----------------|-------------|
| 0.0 = ± .125 | 0.0 = ± .062 | 0° = ± 2° |
| 0.00 = ± .062 | 0.00 = ± .031 | 0.0° = ± 1° |
| 0.000 = ± .031 | 0.000 = ± .015 | |

Material Thickness: per ASTM Std.
Weld Callouts per AWS

RELEASE & REVISIONS

INITIAL ECN: 24359

CURRENT ECN: 24359

ECN DESCRIPTION:

QE8539 RELEASE MODULAR DOME LIGHTING

REVISED BY: MJF

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
ECHOMASTER FLEET SOLUTIONS

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
P-HARRB1

COLOR (ONLY LIST IF COLOR SPECIFIC)

COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE)
(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)

YES

PART / PRODUCT IDENTIFICATION



ADRIAN STEEL

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL

A

MAT'L USED: **PURCHASED**

DESIGNED BY: **MJF**

DESCRIPTION: **ROOF BOW HARNESS #1**

WEIGHT (Lbs.):

.50

SEGMENT CODE: **EAU**

PART NUMBER: **63481**

PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

N/A

LOAD/RATING REQUIREMENT

N/A

MATERIAL REQUIREMENT

N/A

PACKAGING REQUIREMENT

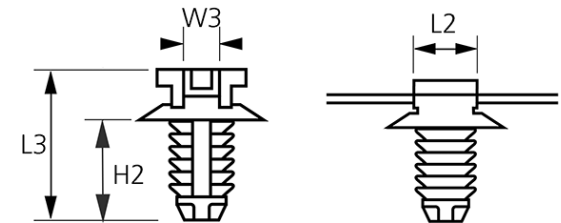
N/A

OTHER REQUIREMENTS

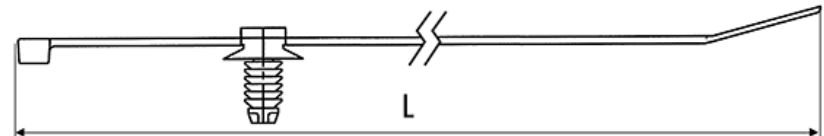
- **Roof Bow #2**
- **(5x) WIRE TIE W/CHRISTMAS TREE**
- **1570mm Length**



P-HARRB2



(5x)



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Sheet 1 of 1

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 REFERENCE DIMENSIONS (X.XXX)
 DO NOT REQUIRE INSPECTION

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| 0.000 = ± .031 | 0.000 = ± .015 | |

Material Thickness: per ASTM Std.
 Weld Callouts per AWS

RELEASE & REVISIONS

| | |
|------------------|---|
| INITIAL ECN: | 24359 |
| CURRENT ECN: | 24359 |
| ECN DESCRIPTION: | QE8539 RELEASE MODULAR DOME LIGHTING |
| REVISED BY: | MJF |

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
ECHOMASTER FLEET SOLUTIONS
 REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
P-HARRB2
 COLOR (ONLY LIST IF COLOR SPECIFIC)
 COMMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE)
 (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMMODITY ITEM.)
YES

PART / PRODUCT IDENTIFICATION

| | |
|---|--------------------------|
| ADRIAN STEEL ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221 | REVISION LEVEL |
| | A |
| MAT'L USED: PURCHASED | DESIGNED BY: MJF |
| DESCRIPTION: ROOF BOW HARNESS #2 | |
| WEIGHT (Lbs.): .50 | SEGMENT CODE: EAU |
| PART NUMBER: 63482 | |

PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

N/A

LOAD/RATING REQUIREMENT

N/A

MATERIAL REQUIREMENT

N/A

PACKAGING REQUIREMENT

N/A

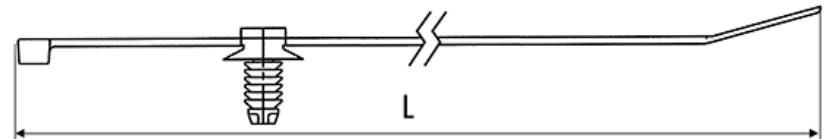
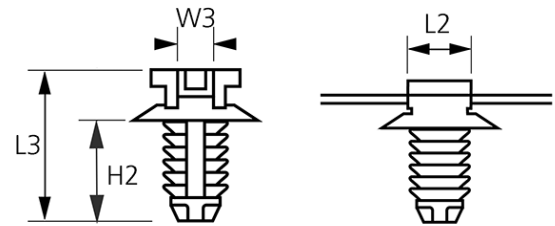
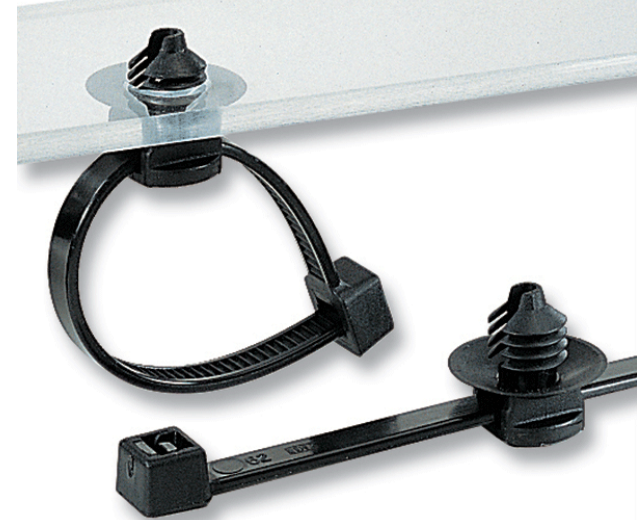
OTHER REQUIREMENTS

- **Roof Bow #3**
- **(5x) WIRE TIE W/CHRISTMAS TREE**
- **2570mm Length**



P-HARRB3

(5x)



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Sheet 1 of 1

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REFERENCE DIMENSIONS (X.XXX)

DO NOT REQUIRE INSPECTION

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|----------------|----------------|-------------|
| 0.0 = ± .125 | 0.0 = ± .062 | 0° = ± 2° |
| 0.00 = ± .062 | 0.00 = ± .031 | 0.0° = ± 1° |
| 0.000 = ± .031 | 0.000 = ± .015 | |

Material Thickness: per ASTM Std.
Weld Callouts per AWS

RELEASE & REVISIONS

INITIAL ECN: 24359

CURRENT ECN: 24359

ECN DESCRIPTION:

QE8539 RELEASE MODULAR DOME LIGHTING

REVISED BY: MJF

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
ECHOMASTER FLEET SOLUTIONS

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER

P-HARRB3

COLOR (ONLY LIST IF COLOR SPECIFIC)

COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE)
(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)

YES

PART / PRODUCT IDENTIFICATION



ADRIAN STEEL

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL

A

MAT'L USED: **PURCHASED**

DESIGNED BY: **MJF**

DESCRIPTION: **ROOF BOW HARNESS #3**

WEIGHT (Lbs.):

.50

SEGMENT CODE: **EAU**

PART NUMBER: **63483**

PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

N/A

LOAD/RATING REQUIREMENT

N/A

MATERIAL REQUIREMENT

N/A

PACKAGING REQUIREMENT

N/A

OTHER REQUIREMENTS

INCLUDES HARNESS - "P-VTM-HAR"



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TOLERANCES & INSPECTION

UNLESS OTHERWISE SPECIFIED

ALL BEND ANGLES ARE 90 DEGREES

ALL DIMENSIONS ARE IN INCHES.

REFERENCE DIMENSIONS (X.XXX)
DO NOT REQUIRE INSPECTION

| FEATURES | HOLES/SLOTS | ANGLES |
|----------------|----------------|-------------|
| 0.0 = ± .125 | 0.0 = ± .062 | 0° = ± 2° |
| 0.00 = ± .062 | 0.00 = ± .031 | 0.0° = ± 1° |
| 0.000 = ± .031 | 0.000 = ± .015 | |

Material Thickness: per ASTM Std.
Weld Callouts per AWS

RELEASE & REVISIONS

INITIAL ECN: **25377**

CURRENT ECN: **25377**

ECN DESCRIPTION:

RELEASE FOR PRODUCTION

REVISED BY:

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER

AAMP GLOBAL

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER

VTM OR 65786

COLOR (ONLY LIST IF COLOR SPECIFIC)

COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE)
(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)

NO

PRINTED DOCUMENT IS UNCONTROLLED

Sheet 1 of 1

PART / PRODUCT IDENTIFICATION



ADRIAN STEEL®

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL

A

MAT'L USED: **PURCHASED**

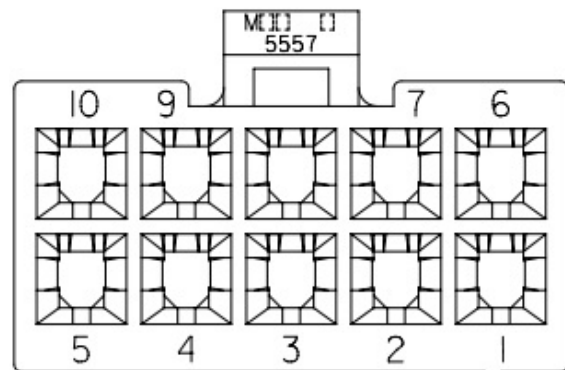
DESIGNED BY: **E.BURKE**

DESCRIPTION: **VOLTAGE TIMER MODULE**

WEIGHT (Lbs.): **0.2**

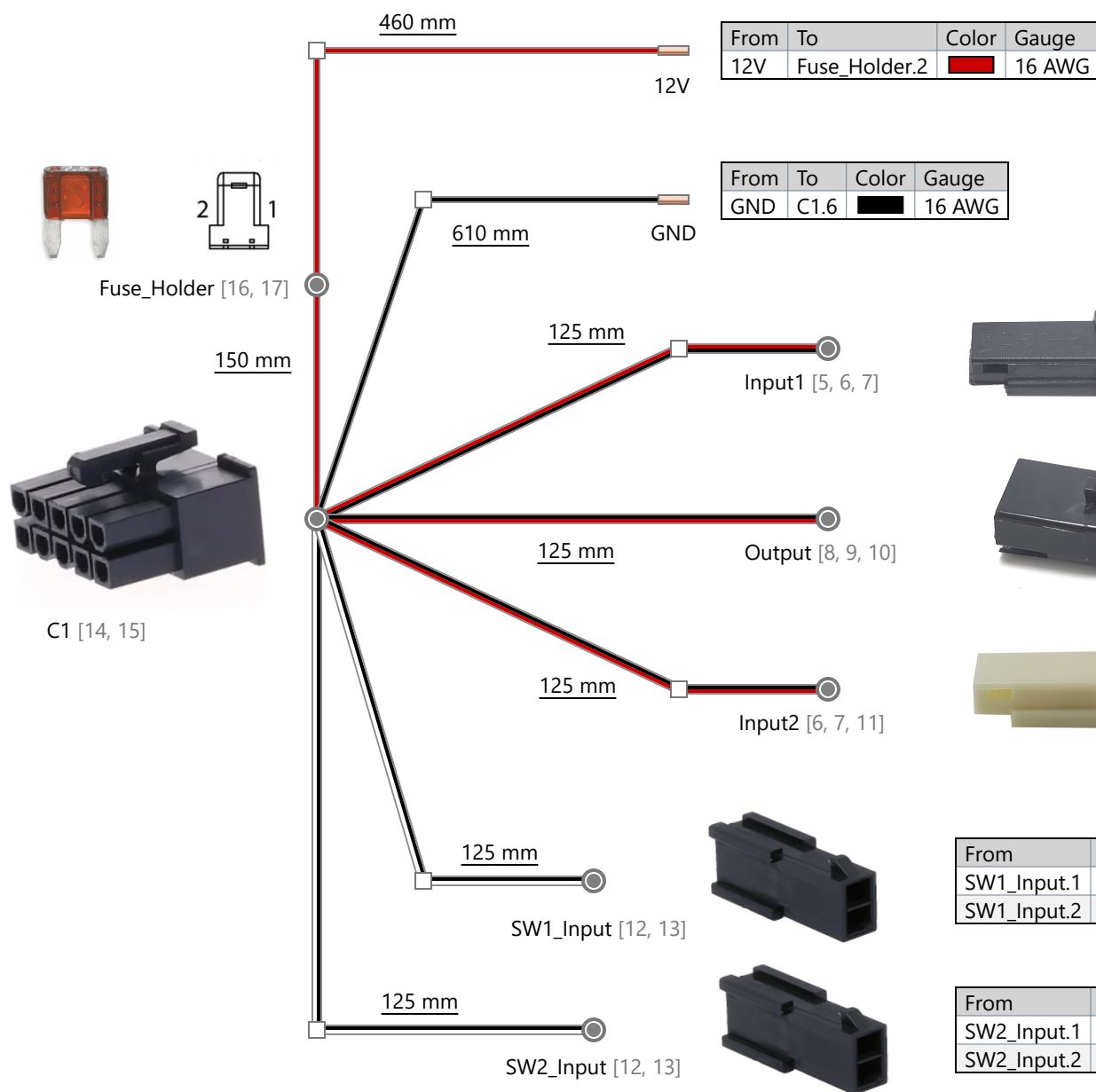
SEGMENT CODE: **ELE**

PART NUMBER: **65786**



Rear View of Connector - Wire Side of Connector

| From | To | Color | Gauge |
|-------|---------------|-------|--------|
| C1.1 | Fuse_Holder.1 | Red | 16 AWG |
| C1.2 | Input1.A | Red | 16 AWG |
| C1.3 | Output.A | Red | 16 AWG |
| C1.4 | Input2.A | Red | 16 AWG |
| C1.5 | SW1_Input.1 | White | 20 AWG |
| C1.5 | SW2_Input.1 | White | 20 AWG |
| C1.6 | GND | Black | 16 AWG |
| C1.7 | Input1.B | Black | 16 AWG |
| C1.8 | Output.B | Black | 16 AWG |
| C1.9 | Input2.B | Black | 16 AWG |
| C1.10 | SW1_Input.2 | Black | 20 AWG |
| C1.10 | SW2_Input.2 | Black | 20 AWG |



| From | To | Color | Gauge |
|------|---------------|-------|--------|
| 12V | Fuse_Holder.2 | Red | 16 AWG |

| From | To | Color | Gauge |
|------|------|-------|--------|
| GND | C1.6 | Black | 16 AWG |

| From | To | Color | Gauge |
|----------|------|-------|--------|
| Input1.A | C1.2 | Red | 16 AWG |
| Input1.B | C1.7 | Black | 16 AWG |

| From | To | Color | Gauge |
|----------|------|-------|--------|
| Output.A | C1.3 | Red | 16 AWG |
| Output.B | C1.8 | Black | 16 AWG |

| From | To | Color | Gauge |
|----------|------|-------|--------|
| Input2.A | C1.4 | Red | 16 AWG |
| Input2.B | C1.9 | Black | 16 AWG |

| From | To | Color | Gauge |
|-------------|-------|-------|--------|
| SW1_Input.1 | C1.5 | White | 20 AWG |
| SW1_Input.2 | C1.10 | Black | 20 AWG |

| From | To | Color | Gauge |
|-------------|-------|-------|--------|
| SW2_Input.1 | C1.5 | White | 20 AWG |
| SW2_Input.2 | C1.10 | Black | 20 AWG |

Input.1 for each switch is the ground signal that will be fed back to the timer module for activation

Input.2 for each switch is a ground that will be provided by the timer module

| Revisions | | | |
|-----------|-----------|---------------|---|
| Rev. | Date | Author | Description |
| v1 | 03/26/21 | Bennet Fisher | Initial Drawing |
| v2 | 7/1/2021 | Bennet Fisher | Revised pin 4 and 9 connections; spliced switch inputs |
| v3 | 7/22/2021 | Bennet Fisher | Changed second dome connector |
| v4 | 11/8/2021 | Bennet Fisher | Eliminated White/Black and Black wire splices; Corrected contacts for C1.4, C1.5, C1.9, and C1.10 |

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETERS (INCHES)
TOLERANCES: ±5MM

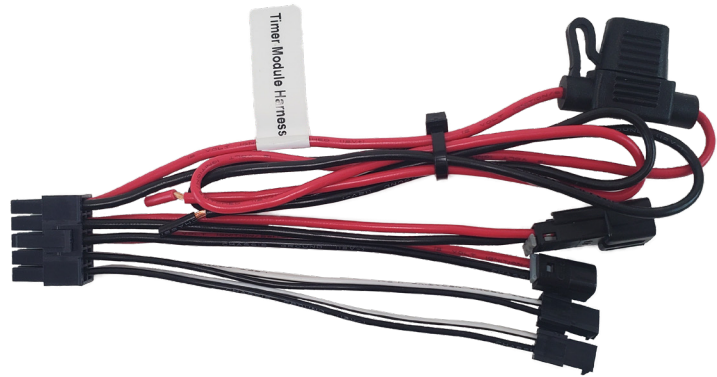
PROPRIETARY AND CONFIDENTIAL

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| | Name | Date |
|------------------------|---------------|---------|
| Designed By | Bennet Fisher | 3/26/21 |
| Engineering Approval | ---- | ---- |
| Manufacturing Approval | ---- | ---- |
| Revision Approval | ---- | ---- |
| Quality Assurance | ---- | ---- |



| | |
|-----------------------------------|----------------|
| Part Number: P-VTM-HAR_ | Revision: ---- |
| Description: Timer Module Harness | Sheet: 1 of 1 |



VTM

Voltage Timer Module

INSTALLATION MANUAL





Thank you for purchasing the **VTM**



WHAT'S INCLUDED:

- Voltage Timer Module
- Voltage Timer Module Harness
- Screws

COMPATIBLE ACCESSORIES:

- Vehicle-specific harness (P-VTM-xxx)
- Switch harness (VTM-SWx)
- High current harness (VTM-RLY)

FEATURES:

- Selectable timer durations - 60, 90, 120, and 150 minutes
- Low voltage shut off at 11.8V
- Timer and Low Voltage sense work independently of each other
- Inputs for 2 momentary switches
- 7.5A max current output





OPERATING INSTRUCTIONS:

| DIP SWITCH 1 UP/DOWN | DIP SWITCH 2 UP/DOWN | DIP SWITCH 3 | DIP SWITCH 4 | Timer Duration (Minutes) |
|-------------------------|-------------------------|--------------|--------------|-----------------------------|
| Voltage Sense ON/OFF | Timer ON/OFF | UP | DOWN | 60 |
| | | UP | UP | 90 |
| | | DOWN | UP | 120 |
| | | DOWN | DOWN | 150 |

If Voltage Sense is turned ON, low voltage shut down will occur when voltage input drops below 11.8V. To eliminate false triggers, there is a 20 second delay before shut down.

If Voltage Sense is turned OFF, input voltage level will not be monitored.

NOTE: Voltage Sense takes precedence over Timer. Voltage Sense is only active when the Switch Inputs are activated. Voltage Sense does not monitor VTM Trigger Input.

If Timer is ON and a switch input is activated, output voltage will be provided for specified timer duration.

While output voltage is active, pressing a switch will disable the output voltage. If pressed once again, output voltage will be re-activated and reset the timer.

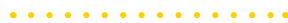
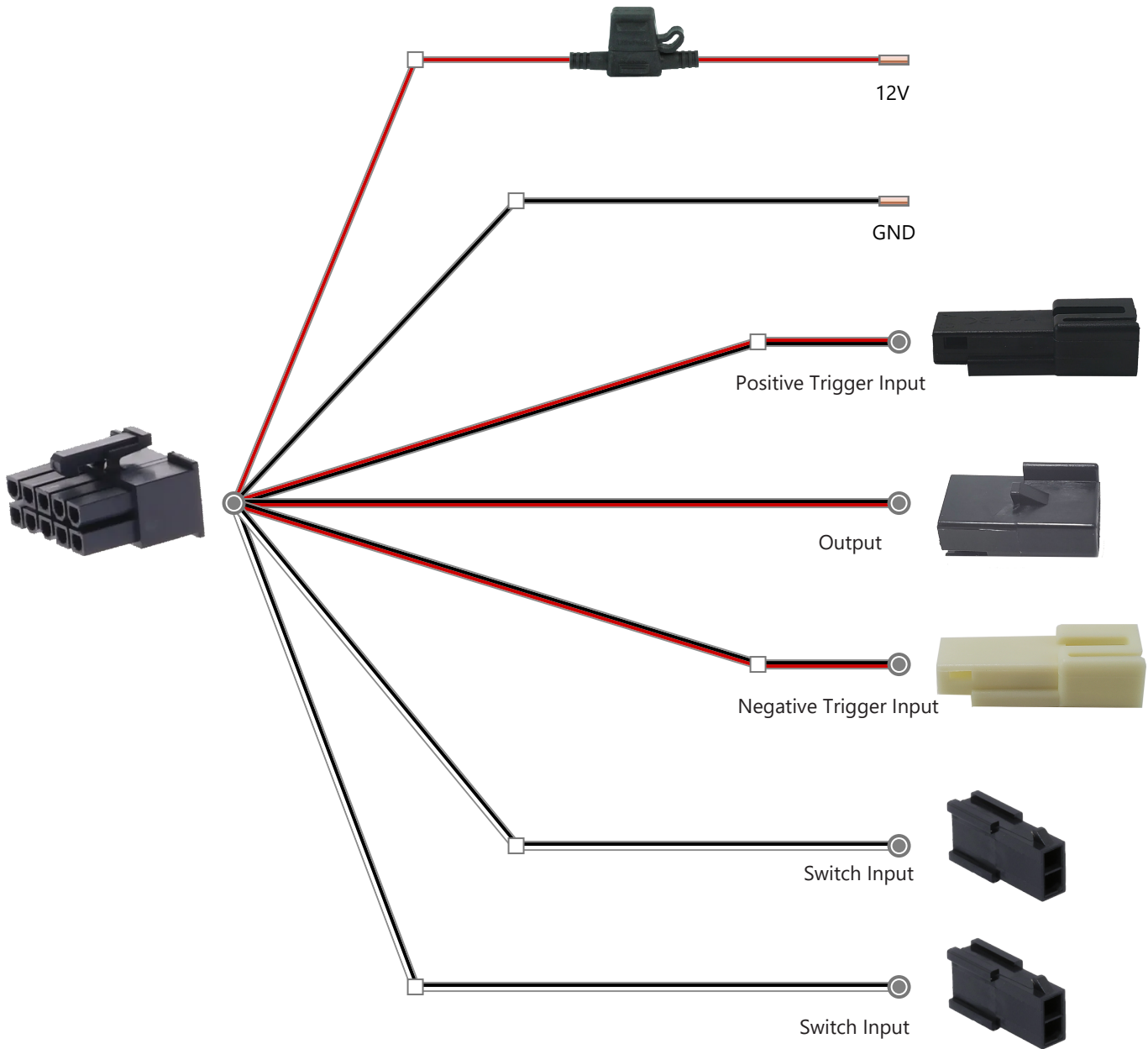
| Trigger Input | Switch Input | Output | Voltage Sense (ON) | Timer (ON) |
|---------------|------------------------|--------|--------------------------|--------------|
| Active | N/A | ON | N/A | N/A |
| Deactivated | N/A | OFF | N/A | N/A |
| Not Active | Activated (Pressed) | ON | Monitoring Input Voltage | Timer starts |
| Not Active | Activated (Pressed) | OFF | N/A | Timer off |
| Not Active | Activated (Pressed) | ON | Monitoring Input Voltage | Timer resets |

If VTM Trigger Input to the VTM module is active, its function takes precedence.



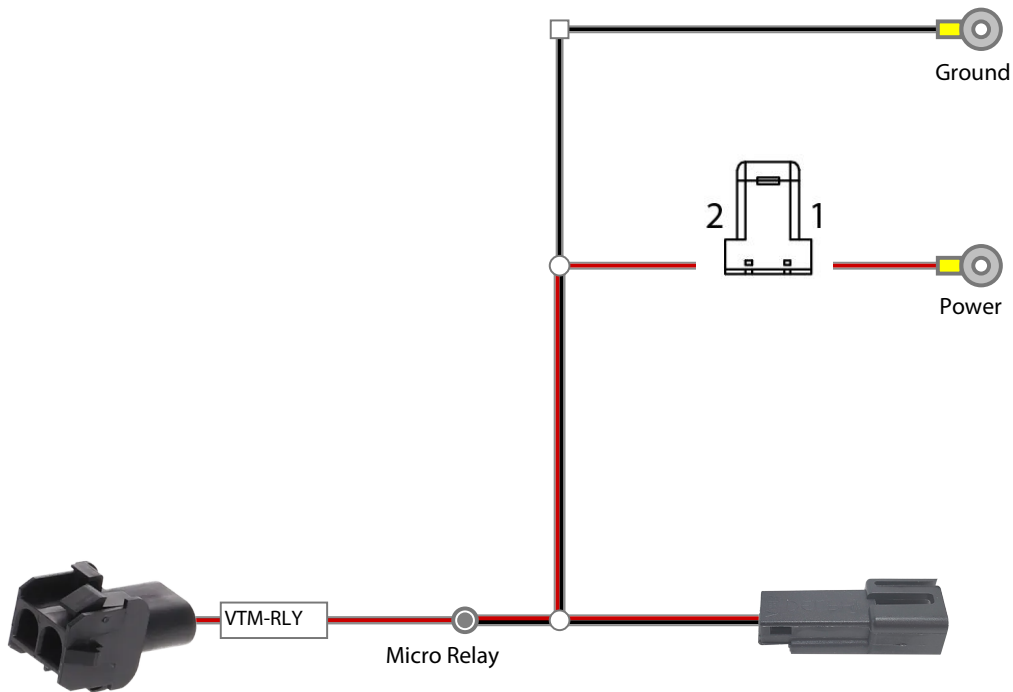
WIRING DIAGRAMS:

VTM Harness



VTM-RLY (Optional Harness)

For larger current demands, use the optional VTM-RLY and connect to power and ground, along with the VTM harness. VTM-RLY supports up to 15A.



VTM-RLY Output connects to the P-VTMxxx harness for vehicle lighting

VTM-RLY Input connects to the output from the VTM harness





Phone – 866-931-8021 (option 3)

E-Mail – support@echomasterfleetsolutions.com



EchoMaster Fleet Solutions is a Power Brand of AAMP Global

EchoMasterfleetsolutions.com

PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

N/A

LOAD/RATING REQUIREMENT

N/A

MATERIAL REQUIREMENT

N/A

PACKAGING REQUIREMENT

N/A

OTHER REQUIREMENTS



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TOLERANCES & INSPECTION

UNLESS OTHERWISE SPECIFIED

ALL BEND ANGLES ARE 90 DEGREES

ALL DIMENSIONS ARE IN INCHES.

REFERENCE DIMENSIONS (X.XXX)
DO NOT REQUIRE INSPECTION

| FEATURES | HOLES/SLOTS | ANGLES |
|----------------|----------------|-------------|
| 0.0 = ± .125 | 0.0 = ± .062 | 0° = ± 2° |
| 0.00 = ± .062 | 0.00 = ± .031 | 0.0° = ± 1° |
| 0.000 = ± .031 | 0.000 = ± .015 | |

Material Thickness: per ASTM Std.
Weld Callouts per AWS

RELEASE & REVISIONS

INITIAL ECN: **25377**

CURRENT ECN: **25377**

ECN DESCRIPTION:

RELEASE FOR PRODUCTION

REVISED BY:

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER

AAMP GLOBAL

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER

VTM-SW2 OR 65788

COLOR (ONLY LIST IF COLOR SPECIFIC)

COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE)
(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)

NO

PRINTED DOCUMENT IS UNCONTROLLED

Sheet 1 of 1

PART / PRODUCT IDENTIFICATION



ADRIAN STEEL

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL

A

MAT'L USED: **PURCHASED**


DESIGNED BY: **E.BURKE**



DESCRIPTION: **SWITCH 2 HARNESS FOR VTM**

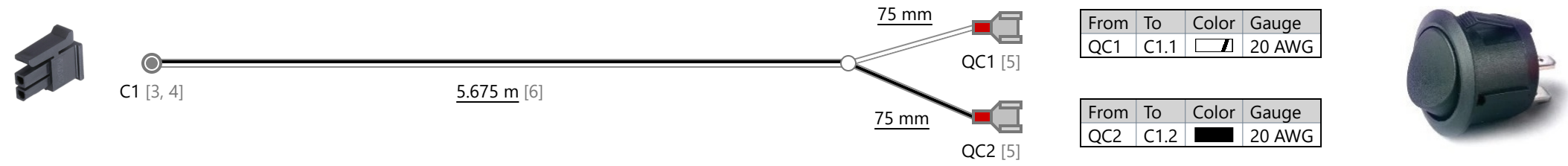
WEIGHT (Lbs.): **0.2**


SEGMENT CODE: **ELE**


PART NUMBER: **65788**

| Coverings | |
|-----------|---|
| Id | Assembly |
| [6] |  |


| From | To | Color | Gauge |
|------|-----|---|--------|
| C1.1 | QC1 |  | 20 AWG |
| C1.2 | QC2 |  | 20 AWG |



| From | To | Color | Gauge |
|------|------|---|--------|
| QC1 | C1.1 |  | 20 AWG |

| From | To | Color | Gauge |
|------|------|--|--------|
| QC2 | C1.2 |  | 20 AWG |

| Revisions | | | |
|-----------|---------|---------------|-----------------|
| Rev. | Date | Author | Description |
| 1 | 6/10/21 | Bennet Fisher | Initial Drawing |

| | | | | |
|--|--|---------------|----------------|---|
| <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS [INCHES] TOLERANCES: ±5MM</p> <p>PROPRIETARY AND CONFIDENTIAL</p> <p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AAMP GLOBAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF AAMP GLOBAL IS PROHIBITED.</p> | | Name | Date |  <p>— ADVANCING VEHICLE TECHNOLOGY —</p> |
| | Designed By | Bennet Fisher | 6/10/2021 | |
| | Engineering Approval | | | |
| | Manufacturing Approval | | | |
| | Revision Approval | | | |
| Quality Assurance | | | | |
| | Part Number: VTM-SW2 | | Revision: 1 | |
| | Description: 5.675 Meter Switch Harness | | Sheet: ---- | |

PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

N/A

LOAD/RATING REQUIREMENT

N/A

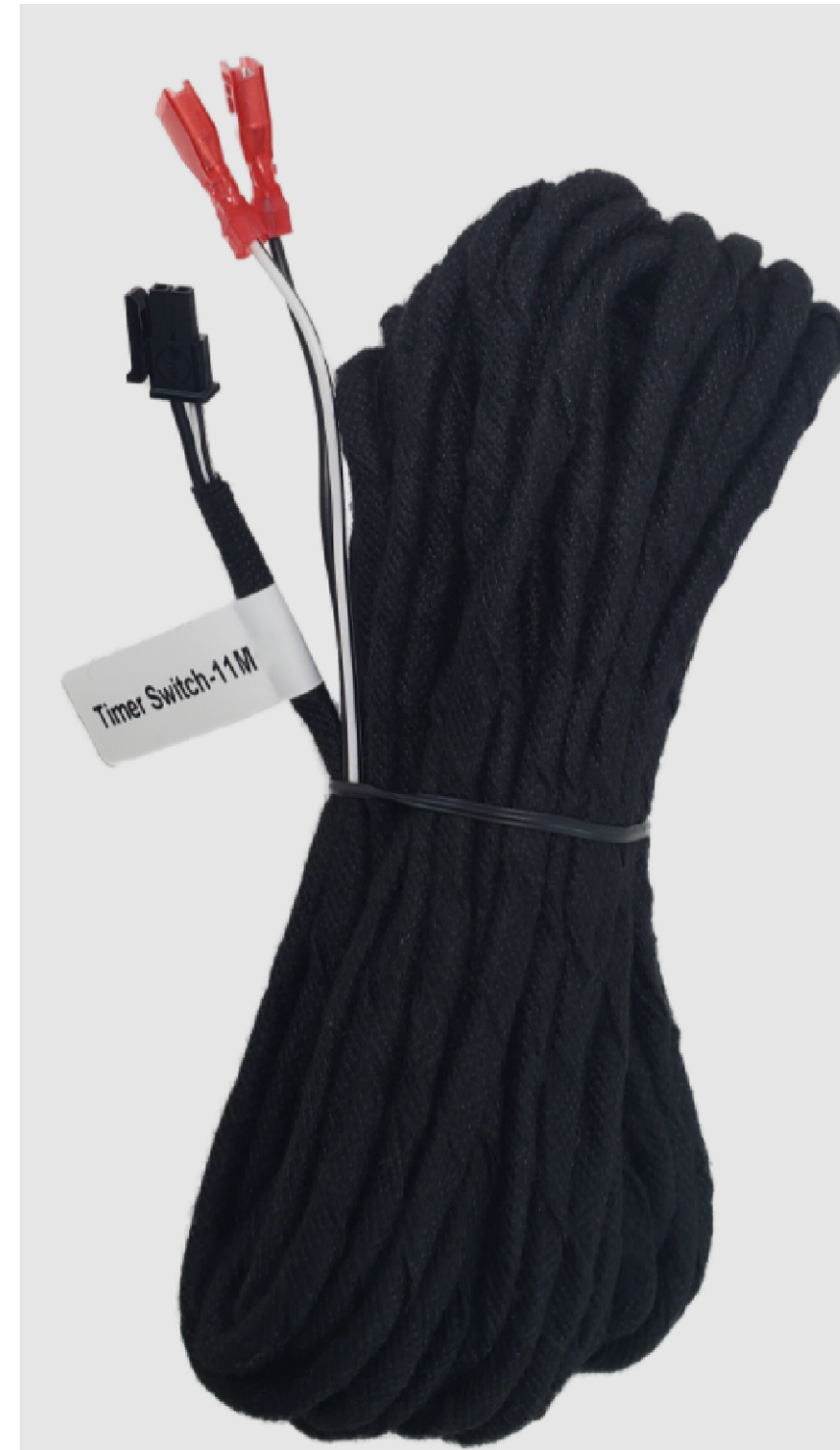
MATERIAL REQUIREMENT

N/A

PACKAGING REQUIREMENT

N/A

OTHER REQUIREMENTS



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TOLERANCES & INSPECTION

UNLESS OTHERWISE SPECIFIED

ALL BEND ANGLES ARE 90 DEGREES

ALL DIMENSIONS ARE IN INCHES.

REFERENCE DIMENSIONS (X.XXX)
DO NOT REQUIRE INSPECTION

| FEATURES | HOLES/SLOTS | ANGLES |
|----------------|----------------|-------------|
| 0.0 = ± .125 | 0.0 = ± .062 | 0° = ± 2° |
| 0.00 = ± .062 | 0.00 = ± .031 | 0.0° = ± 1° |
| 0.000 = ± .031 | 0.000 = ± .015 | |

Material Thickness: per ASTM Std.
Weld Callouts per AWS

RELEASE & REVISIONS

INITIAL ECN: **25377**

CURRENT ECN: **25377**

ECN DESCRIPTION:

RELEASE FOR PRODUCTION

REVISED BY:

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER

AAMP GLOBAL

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER

VTM-SW4 OR 65790

COLOR (ONLY LIST IF COLOR SPECIFIC)

COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE)
(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)

NO

PRINTED DOCUMENT IS UNCONTROLLED

Sheet 1 of 1

PART / PRODUCT IDENTIFICATION



ADRIAN STEEL

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL

A

MAT'L USED: **PURCHASED**


DESIGNED BY: **E.BURKE**



DESCRIPTION: **SWITCH 4 HARNESS FOR VTM**

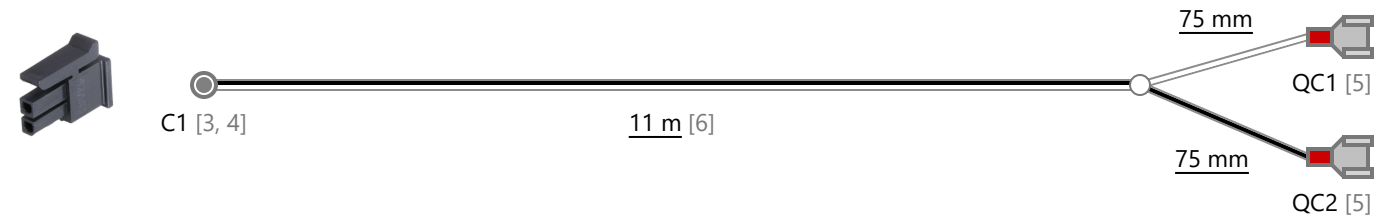
WEIGHT (Lbs.): **0.2**


SEGMENT CODE: **ELE**


PART NUMBER: **65790**

| Coverings | |
|-----------|---|
| Id | Assembly |
| [6] |  |


| From | To | Color | Gauge |
|------|-----|---|--------|
| C1.1 | QC1 |  | 20 AWG |
| C1.2 | QC2 |  | 20 AWG |



| From | To | Color | Gauge |
|------|------|---|--------|
| QC1 | C1.1 |  | 20 AWG |

| From | To | Color | Gauge |
|------|------|--|--------|
| QC2 | C1.2 |  | 20 AWG |



| | | | | | |
|--|------------------------|---------------|-----------|---|-------------|
| <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS [INCHES] TOLERANCES: ±5MM</p> <p>PROPRIETARY AND CONFIDENTIAL</p> <p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AAMP GLOBAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF AAMP GLOBAL IS PROHIBITED.</p> | | Name | Date |  <p>— ADVANCING VEHICLE TECHNOLOGY —</p> | |
| | Designed By | Bennet Fisher | 6/10/2021 | | |
| | Engineering Approval | | | | |
| | Manufacturing Approval | | | | |
| | Revision Approval | | | | |
| Quality Assurance | | | | Part Number: VTM-SW4 | Revision: 1 |
| | | | | Description: | Sheet: |
| | | | | 11 Meter Switch Harness | ---- |

| Revisions | | | |
|-----------|---------|---------------|-----------------|
| Rev. | Date | Author | Description |
| 1 | 6/10/21 | Bennet Fisher | Initial Drawing |

PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

N/A

LOAD/RATING REQUIREMENT

N/A

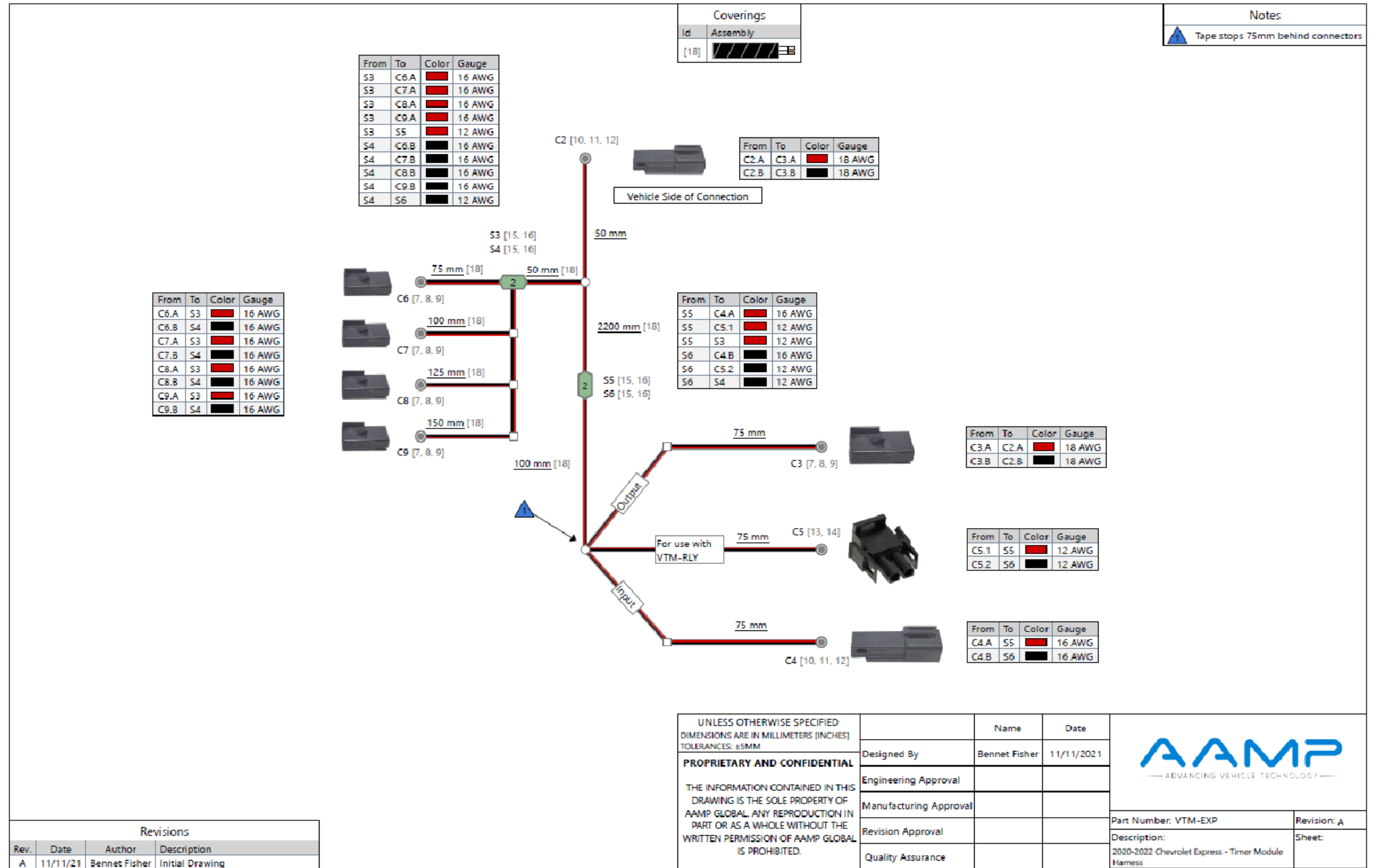
MATERIAL REQUIREMENT

N/A

PACKAGING REQUIREMENT

N/A

OTHER REQUIREMENTS



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TOLERANCES & INSPECTION

UNLESS OTHERWISE SPECIFIED

ALL BEND ANGLES ARE 90 DEGREES

ALL DIMENSIONS ARE IN INCHES.

REFERENCE DIMENSIONS (X.XXX)
DO NOT REQUIRE INSPECTION

| FEATURES | HOLES/SLOTS | ANGLES |
|----------------|----------------|-------------|
| 0.0 = ± .125 | 0.0 = ± .062 | 0° = ± 2° |
| 0.00 = ± .062 | 0.00 = ± .031 | 0.0° = ± 1° |
| 0.000 = ± .031 | 0.000 = ± .015 | |

Material Thickness: per ASTM Std.
Weld Callouts per AWS

RELEASE & REVISIONS

INITIAL ECN: **25377**

CURRENT ECN: **25377**

ECN DESCRIPTION:

RELEASE FOR PRODUCTION

REVISED BY: **EMB**

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER

AAMP GLOBAL

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER

VTM-EXP OR 65792

COLOR (ONLY LIST IF COLOR SPECIFIC)

COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE)
(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)

NO

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Sheet 1 of 1

PART / PRODUCT IDENTIFICATION



ADRIAN STEEL

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL

A

MAT'L USED: **PURCHASED**

DESIGNED BY: **E.BURKE**

DESCRIPTION: **HARN, POWER VTM EX**

WEIGHT (Lbs.): **0.2**

SEGMENT CODE: **ELE**

PART NUMBER: **65792**

Notes

▲ Tape stops 75mm behind connectors

Coverings

| Id | Assembly |
|------|----------|
| [18] | |

| From | To | Color | Gauge |
|------|------|-------|--------|
| S3 | C6.A | Red | 16 AWG |
| S3 | C7.A | Red | 16 AWG |
| S3 | C8.A | Red | 16 AWG |
| S3 | C9.A | Red | 16 AWG |
| S3 | S5 | Red | 12 AWG |
| S4 | C6.B | Black | 16 AWG |
| S4 | C7.B | Black | 16 AWG |
| S4 | C8.B | Black | 16 AWG |
| S4 | C9.B | Black | 16 AWG |
| S4 | S6 | Black | 12 AWG |

| From | To | Color | Gauge |
|------|------|-------|--------|
| C2.A | C3.A | Red | 18 AWG |
| C2.B | C3.B | Black | 18 AWG |

Vehicle Side of Connection

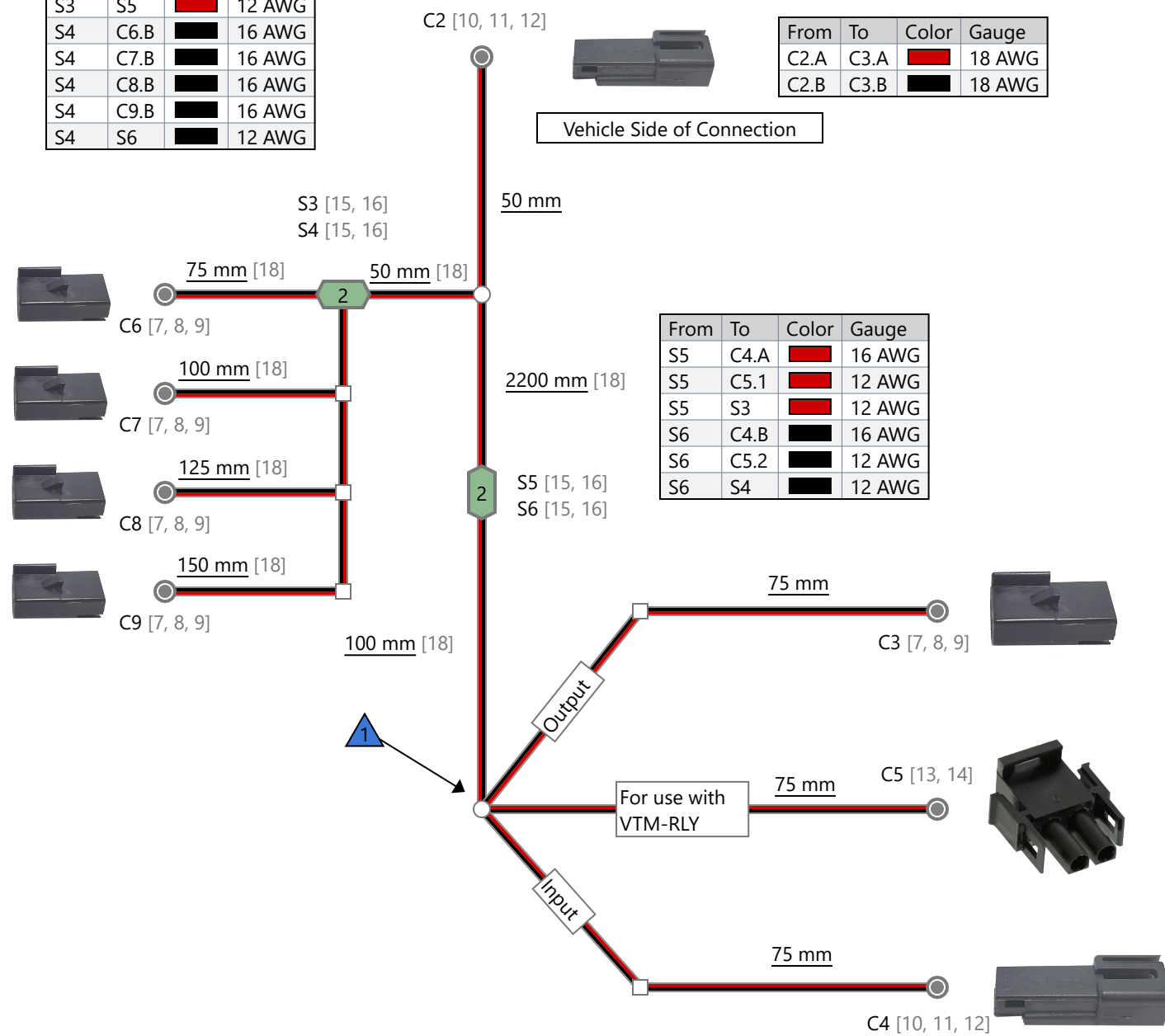
| From | To | Color | Gauge |
|------|----|-------|--------|
| C6.A | S3 | Red | 16 AWG |
| C6.B | S4 | Black | 16 AWG |
| C7.A | S3 | Red | 16 AWG |
| C7.B | S4 | Black | 16 AWG |
| C8.A | S3 | Red | 16 AWG |
| C8.B | S4 | Black | 16 AWG |
| C9.A | S3 | Red | 16 AWG |
| C9.B | S4 | Black | 16 AWG |

| From | To | Color | Gauge |
|------|------|-------|--------|
| S5 | C4.A | Red | 16 AWG |
| S5 | C5.1 | Red | 12 AWG |
| S5 | S3 | Red | 12 AWG |
| S6 | C4.B | Black | 16 AWG |
| S6 | C5.2 | Black | 12 AWG |
| S6 | S4 | Black | 12 AWG |

| From | To | Color | Gauge |
|------|------|-------|--------|
| C3.A | C2.A | Red | 18 AWG |
| C3.B | C2.B | Black | 18 AWG |

| From | To | Color | Gauge |
|------|----|-------|--------|
| C5.1 | S5 | Red | 12 AWG |
| C5.2 | S6 | Black | 12 AWG |

| From | To | Color | Gauge |
|------|----|-------|--------|
| C4.A | S5 | Red | 16 AWG |
| C4.B | S6 | Black | 16 AWG |



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETERS [INCHES]
TOLERANCES: ±5MM

PROPRIETARY AND CONFIDENTIAL

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| | Name | Date |
|------------------------|---------------|------------|
| Designed By | Bennet Fisher | 11/11/2021 |
| Engineering Approval | | |
| Manufacturing Approval | | |
| Revision Approval | | |
| Quality Assurance | | |



| | |
|--|-------------|
| Part Number: VTM-EXP | Revision: A |
| Description: 2020-2022 Chevrolet Express - Timer Module Harness | Sheet: |

Revisions

| Rev. | Date | Author | Description |
|------|----------|---------------|-----------------|
| A | 11/11/21 | Bennet Fisher | Initial Drawing |

PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

N/A

LOAD/RATING REQUIREMENT

N/A

MATERIAL REQUIREMENT

N/A

PACKAGING REQUIREMENT

N/A

OTHER REQUIREMENTS

3/8" ID ring terminal
-Vinyl insulated
-Accepts 14-16 AWG wire



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TOLERANCES & INSPECTION

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ALL DIMENSIONS ARE IN INCHES.

REFERENCE DIMENSIONS (X.XXX)
DO NOT REQUIRE INSPECTION

| FEATURES | HOLES/SLOTS | ANGLES |
|----------------|----------------|-------------|
| 0.0 = ± .125 | 0.0 = ± .062 | 0° = ± 2° |
| 0.00 = ± .062 | 0.00 = ± .031 | 0.0° = ± 1° |
| 0.000 = ± .031 | 0.000 = ± .015 | |

Material Thickness: per ASTM Std.
Weld Callouts per AWS

RELEASE & REVISIONS

INITIAL ECN: 25286

CURRENT ECN: 25286

ECN DESCRIPTION:

Release

REVISED BY: N/A

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER

Waytek

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER

31506

COLOR (ONLY LIST IF COLOR SPECIFIC)

COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE)
(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)

YES

PRINTED DOCUMENT IS UNCONTROLLED

Sheet 1 of 1

PART / PRODUCT IDENTIFICATION



ADRIAN STEEL

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL

A

MAT'L USED:

DESIGNED BY: **AMB**

DESCRIPTION: **WIRE TERM. 3/8" RING**

WEIGHT (Lbs.): 0.01

SEGMENT CODE: **ELE**

PART NUMBER: **66756**